SIEMENS

MOBILETT Plus HP

SP

Maintenance Protocol

System

MOBILETT Plus HP

Customer:	
Address:	
Department:	
Room:	
Contact person:	
Telephone:	
Cust. specific no.:	
Cust. no.:	
Date.:	

The instructions SPR8-220.101.04.03.02 are required for this protocol

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English
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SIEMENS Office:	
Address:	
Region:	
Country:	
Contact person:	
Tel.:	
CSE in charge:	
Tel.:	

Remarks Regarding the Protocol:

The protocol is valid as proof of quality for **one** check that must be performed on the system / component in one year.

The check must be performed in the specified intervals.

The results of the check are entered in this protocol.

The chapter numbers in front of the checkpoints indicate the corresponding chapters in the particular instructions (see cover page).

The protocol must be completely filled out by the Customer Service Engineer, i.e.:

- All boxes must be filled out. If a box does not apply to the system or if no entry needs to be made, check the “n.a.“ box.
- Enter the customer number (Cust. No.:) and the date of the check in the header of each page so that each page can be allocated to a customer and to a check date.
- If there are complaints, the IVKs for the component about which a complaint has been made as well as the type of complaint must be entered in the “Open Points“ table provided for this. Correction of these open points also must be documented in this table with the date and a signature. If there are no open points, check “No“ and document this with the date and a signature.
- If movable components (also test phantoms that are part of the system) that can be used in different systems are used for the check, they must be entered in the “Movable Components“ table provided for this.
- The measurement values for the measurements that must be performed during the check must also be entered in the open spaces / tables provided for them.
- After completing the check, Page 3 of this protocol must be filled out and signed.

Further Processing and Archiving of the Protocol

The protocol is a document and thus must be archived. After completing the test, it must be filed in the corresponding register in the “System Owner Manual“ binder. If needed, a copy can be handed to the customer.

System:	
Serial No.:	
Software Version:	
Number of the Service Contract:	
Type of Maintenance:	

Evaluating the Condition of the System / Component

The system has no deficiencies. The image quality test resulted in no differences from required reference values.	☐
The system / component has slight deficiencies that have no affect on continued operation of the system. However they should be corrected preventively. The image quality test resulted in no differences from required reference values.	☐
The system / component has serious deficiencies. For safety reasons, continued operation of the system is permitted only after successfully correcting the deficiencies.	☐

After completing all work steps, an evaluation was performed.

Signature: _____

Date: Name:

The operator or a person assigned for this has taken note of this evaluation.

(if national regulations require this)

Signature: _____

Date: Name:

Explanation of Abbreviations in the Protocol

Abbrev.	Explanation		Abbrev.	Explanation
SI	Safety Inspection		PMF	Preventive Maintenance, Operating Value Check, Function Check
SIE	Electrical Safety Inspection		Q	System Quality, Image Quality
SIM	Mechanical Safety Inspection		QIQ	Image Quality
PM	Preventive Maintenance		QSQ	System Quality Check
PMP	Periodic Preventive Maintenance		SW	Software Maintenance
PMA	Preventive Maintenance Adjustments		CSE	Customer Service Engineer

Additional activities performed

Only activities that are not described in the instructions for the system / component need to be listed.

	Date:		
Additional activities performed:	OK	not OK	n.a.
	☐	☐	☐
	☐	☐	☐

Open Points:

Yes: ☐ No: ☐ Signature: _____

Date: Name:

If “Yes“, enter the component with the IVK and the open point (only the number) in the table. After completing maintenance, record this in the table.

IVK	Component	Open Points	Completed	
			Date	Signature

Measuring Devices queried electronically:

Yes: ☐ No: ☐ Signature: _____

Date: Name:

If the measurement devices are queried electronically, for example with a Scout Mobile Device, entry of the measuring devices in the table can be skipped.

Measuring Devices	Type	Serial No.	Date Used	Next Calibration Due

Movable Components:

Yes: ☐ No: ☐ Signature: _____

Date: Name:

If “Yes“, enter the movable component with which the check was performed along with the with the Serial No. in the table.

Movable components (also test phantoms that are part of the system) are parts that can be used on different systems).

Component	Serial No.

OK not OK | n.a.

1 General

2 Inspection and Maintenance

2.1 Visual inspection

SIM	Labels	☐☐☐
PMP	Customer documentation	☐☐☐

2.1.1 Damage

SIM	Covers	☐☐☐
SIM	Cassette compartment	☐☐☐
SIM	Control and display panel	☐☐☐
SIM	Exposure release cable	☐☐☐
SIM	Single tank generator	☐☐☐
SIM	Collimator	☐☐☐
SIM	DAP (optional)	☐☐☐

Option present: Yes: ☐ No: ☐

Signature: _____

Date: Name:

2.2 Mechanical inspection

2.2.1 Rear wheels

SIM	Damage	☐☐☐
SIM	Drive belt	☐☐☐
SIM	Brake lining	☐☐☐
SIM	Secure mounting	☐☐☐
SIM	Ease of movement	☐☐☐

2.2.2 Front wheels

SIM	Secure mounting	☐☐☐
SIM	Ease of movement	☐☐☐
PMP	Cleaning	☐☐☐

2.2.3 Supporting wheels

SIM	Ease of movement	☐☐☐
SIM	Damage	☐☐☐

2.2.4 Brakes

SIM	Uniformity	☐☐☐
SIM	Braking force	☐☐☐
SIM	Locking	☐☐☐

2.2.5 Transport safeguard

SIM	Damage	☐☐☐

			OK	not OK	n.a.
	SIM	Locking	☐	☐	☐
2.2.6	**Handle**				
	SIM	Mounting	☐	☐	☐
2.2.7	**Collimator adjustment knobs**				
	SIM	Mounting	☐	☐	☐
2.2.8	**Arm system and single tank**				
	SIM	Movement of the arm system	☐	☐	☐
	SIM	Movement of the single tank fork	☐	☐	☐
	SIM	Single tank movement	☐	☐	☐
2.2.9	**Mains cable**				
	PMP	Replace the mains cable every 2 years.	☐	☐	☐
		Startup Date / Date of Last Replacement . . DD MM YYYY			
	SIM	Damage	☐	☐	☐
	PMP	Cleaning	☐	☐	☐
	SIM	Cable winder	☐	☐	☐
	SIM	Protective conductor	☐	☐	☐
2.2.10	**Arm system mounting**				
	SIM	Screws and lock nuts	☐	☐	☐
2.2.10.1	**Adjustment screw**				
	SIM	Lock nuts	☐	☐	☐
	SIM	Base mounting	☐	☐	☐
2.2.10.2	**Arm connecting piece**				
	SIM	Screws and nuts	☐	☐	☐
2.2.10.3	**Single tank fork**				
	SIM	Screw connections on the fork	☐	☐	☐
	SIM	Single tank screw connections	☐	☐	☐
2.2.10.4	**Lubrication**				
	PMP	Glide bushing on the connecting rod	☐	☐	☐
2.2.11	**Arm cable harness**				
	SIM	Damage	☐	☐	☐
2.2.12	**Turn plate**				
	PMF	Button illumination	☐	☐	☐
	PMF	Function	☐	☐	☐
2.3	**Batteries**				
	PMF	Battery voltage	☐	☐	☐
	PMF	Condition	☐	☐	☐

		OK	not OK	n.a.
PMF	Charging indicator	☐	☐	☐

2.4 Service mode

2.5 Maintenance tests

SIE	Display test	☐	☐	☐
PMF	Filament test	☐	☐	☐
PMF	Rotating anode test	☐	☐	☐
PMF	Capacitor bank and charge test	☐	☐	☐

2.6 Backup battery G1/D1

PMP	Replace every 5 years	☐	☐	☐

Startup Date / Date of Last Replacement . .

DD MM YYYY

PMF	P11 - Backup battery test	☐	☐	☐

2.7 Test of kV accuracy

PMF	kV accuracy 52 kV, 50 mAs (B)	☐	☐	☐

Measured value:

PMF	kV accuracy 81 kV, 20 mAs (B)	☐	☐	☐

Measured value:

PMF	kV accuracy 133 kV, 12.5 mAs (B)	☐	☐	☐

Measured value:

PMF	kV accuracy 81 kV, 20 mAs (M)	☐	☐	☐

Measured value:

2.8 Test of mAs accuracy

PMF	mAs accuracy 40 kV, 5 mAs (B)	☐	☐	☐

Measured value:

PMF	mAs accuracy 81 kV, 2 mAs (B)	☐	☐	☐

Measured value:

PMF	mAs accuracy 133 kV, 10 mAs (B)	☐	☐	☐

Measured value:

		OK	not OK	n.a.
PMF	mAs accuracy 81 kV, 2 mAs (M)	☐	☐	☐
	Measured value:			

2.9 Check for reproducibility

QSQ	Fluctuation coefficient C	☐	☐	☐
	Measured value:			

2.10 Remote exposure switch system (optional)

SIE	Function of remote exposure switch system	☐	☐	☐
PMP	Replace the remote control battery every year.	☐	☐	☐

2.11 DAP measuring system (optional)

SIE	Function of DAP measuring system	☐	☐	☐

2.12 Replacing the collimator lamp

PMP	Replace every year.	☐	☐	☐
PMF	Function of the collimator lamp	☐	☐	☐

2.13 Checking the luminance

PMF	Luminance	☐	☐	☐

2.14 Coincidence of radiation and light fields

QSQ	Deviation ((A + C) / SID)	☐	☐	☐
	Measured value:			
QSQ	Deviation ((B + D) / SID)	☐	☐	☐
	Measured value:			

2.15 Checking the radiation indicator

SIE	Radiation indicator	☐	☐	☐
SIE	Audible signal	☐	☐	☐

2.16 Checking the manual exposure interrupt

SIE	Message "USE20"	☐	☐	☐
SIE	10 short beep signals	☐	☐	☐

2.17 Protective ground/earth measurement

SIE	Measured value	☐	☐	☐
	Measured value:			

		OK	not OK	n.a.
2.18	**Equivalent Leakage Current Measurement**			
SIE	Measured value	☐	☐	☐
	Measured value:			
2.19	**Cleaning the system**			
PMP	Cleaning	☐	☐	☐
2.20	**Checking the kV and mAs displays**			
PMF	"Ready" indicator	☐	☐	☐
SIE	Visibility of displays	☐	☐	☐
SIE	Correct displays	☐	☐	☐
2.21	**Motor drive function**			
PMF	Forward/ reverse	☐	☐	☐
PMF	Acceleration	☐	☐	☐
SIE	Shutdown function	☐	☐	☐